Attend to conthis 3 day sening microscorm seminar storm vater tion content at the learn how management feet than the practices!

Low-Impact Development Workshop



Sponsored by the
U.S. Army
Environmental Center
and
Fort Lewis



28-30 October 2003

Fort Lewis Golf Course Clubhouse Fort Lewis, Washington

Low-Impact Development Workshop Fort Lewis, Washington 28–30 October 2003

The seminar will involve engineers, planners, and environmental and natural resources managers in a practical site assessment and design exercise. Workshop participants will examine administrative and policy-related aspects of implementing low-impact development (LID) in construction, renovation, and landscaping projects.

in construction, renovation, and landscaping projects.	
Tuesday, 28	October 2003
	Registration
	Welcoming Remarks TBD
0840 - 0855	Overview of Low-Impact Development and LID Implementation at Army Installations Rosemary Queen, Natural Resources Branch Chief, U.S. Army Environmental Center
0855 - 0930	Overview of Related Laws, Regulations, and Policies Helene Merkel, Program Manager, Horne Engineering
0930 - 0945	Break
0945 – 1045	Basic Principles and Practices of LID Larry Coffman, Associate Director of Programs and Planning, Prince George's County, Maryland, Department of Environmental Resources
1045 – 1115	Role of LID Technology in Natural Resources and Ecosystem Protection Larry Coffman
1115 – 1230	Lunch
1230 – 1300	Natural Resources and Ecosystem Planning Considerations Helene Merkel
1300 – 1400	Analytical Methodologies and Design Issues Larry Coffman
1400 – 1500	Detailed Case Studies: New Development and Urban Retrofits Larry Coffman
1500 – 1515	Break
1515 – 1545	Detailed Army Case Studies Helene Merkel
1545 - 1600	Discussion and Wrap Up

Low-Impact Development Workshop Fort Lewis, Washington 28–30 October 2003

Wednesday, 29 October 2003

0830 – 1000 LID Toolbox Larry Coffman

1000 - 1015 Break

1015 – 1100 Overview and Explanation of Field Exercise
Priscilla Natasia, Stormwater Specialist, Fort Lewis
Public Works, Environmental, and Natural Resources
Division

1100 - 1230 Lunch

1230 - 1400 Field Exercise

1400 – 1415 Break

1415 – 1630 Design Charrette

THURSDAY, 30 OCTOBER 2003

0830 - 1000 Design Presentations

1000 – 1015 Break

1015 – 1045 Incorporating LID into Existing Plans, Guidelines, and Specifications

Helene Merkel

1045 – 1130 Cost Considerations *Larry Coffman and Helene Merkel*

1130 – 1300 Lunch

1300 – 1345 Maintenance, Upkeep, and Lessons Learned Larry Coffman

1345 – 1415 Overview of Funding Sources Helene Merkel

1415 - 1430 Wrap Up and Course Evaluation

Low-impact development (LID) concepts and techniques are not new, but they are very different than current practices for handling stormwater, such as curbs, gutters, or stormwater retention basins. LID principles allow for stormwater capture and reuse, groundwater recharge, and reduction of impervious surfaces, thereby reducing surface water pollution. LID is an integral part of the SPiRiT guidelines and will be incorporated into Fort Lewis's sustainability program. The application of LID principles will also assist Fort Lewis in meeting new Phase II MS4s stormwater requirements.

REGISTRATION

Participation is free. Register by **17 October 2003** by contacting: stormwater@lewis.army.mil

253-966-1795 fax 253-966-4985

Please provide the following:

- name
- agency/organization
- title

- mailing address
- phone and fax numbers
- e-mail address

Direct inquiries for more information to 253-967-2326.

HOTEL ACCOMMODATIONS

These hotels have reserved blocks of rooms for workshop participants.

GuestHouse International Inn & Suites (gov. rate \$79) 1609 McNeil St., Dupont, WA 253-912-8900

King Oscar Hotel (gov. rate \$55)

8200 Quinault Dr., NE, Olympia, WA 888-254-5464

Refer to the LID conference when making reservations. The reserved rooms will only be available a short time; make your plans now!

MEALS

Participants will be responsible for all meals. Continental breakfasts are provided at the hotels, and breakfast and lunch are available at the clubhouse. Nearby restaurants offer additional options.

DIRECTIONS TO FORT LEWIS GOLF CLUB CLUBHOUSE

From I–5, **Heading North:** Take exit 116. Turn left off of the exit ramp. Cross the overpass, and the golf club will be on the right.

From I–5, **Heading South:** Take exit 116. Turn right off of the exit ramp. The golf club will be on the right.

Did you know: Current stormwater conveyance systems focus on creating an efficient drainage system that will efficiently collect, convey, and discharge runoff. Though this system does prevent onlot flooding, promotes good drainage, and quickly conveys runoff, it also decreases groundwater recharge and alters the natural hydrology of the watershed. Low-impact development practices focus on controlling stormwater at the source by the use of microscale controls that are distributed throughout the site. These multifunctional site designs incorporate alternative stormwater management practices, such as functional landscapes, depression storage, and open drainage swales, to create a more cost-effective and aesthetically pleasing form of stormwater control.